



T
E
C
H
N
O
L
O
G
Y

T
R
A
N
S
F
E
R

A
S
S
E
S
S
M
E
N
T

C
E
N
T
E
R

13 November 1984

NOTE FOR: [REDACTED] 25X1
OSWR Action Staff

FROM : [REDACTED] 25X1
Acting Chief,
Technology Transfer Assessment Center

We have nothing to add to the question
of Italian diversion of COCOM-controlled
equipment through Austria instead of Switzerland.

25X1

25X1

Page Denied

Next 2 Page(s) In Document Denied

THE ROLE OF ITALY IN THE TRANSFER OF TECHNOLOGY TO THE
SOVIET UNION AND EASTERN EUROPE

25X1

Summary and Conclusions

Soviet and East European access to Western high technology through Italy for the most part occurs through traditional business activities. Italy's commercial relationships with the Soviet Bloc are well-established, actively promoted, and considered important to its economic welfare. The opportunities for acquisitions of strategic technologies are perhaps fewer than in France or West Germany because of Italy's less advanced technological base, but the infusion of US technology and equipment along with the indigenous capabilities in a few select areas have warranted the attention of the Soviet Union and Eastern Europe. However, the likelihood of Soviet technology acquisitions through Italy is perhaps greater than the evidence shows to date. [REDACTED]

25X1

Italy is a net importer of technology and is [REDACTED] probably 5-10 years behind other Western countries in moving to a high-technology industrial structure. Nevertheless, unique indigenous capabilities have been identified in a few Italian firms. The Soviet Union and Eastern Europe are known to concentrate their acquisition efforts in these select technological areas of the few select Italian firms which have established a reputation of excellence: machine tools and automated manufacturing, electronic components and semiconductors, telecommunications, advanced materials, and chemical processing. [REDACTED]

25X1

Incidents of transfers of equipment for military application from Italy have been few. [REDACTED]

25X1

[REDACTED] There are numerous examples of dual-use equipment being transferred from Italy to the Bloc, but it is difficult to assess these in terms of strategic value, since factors affecting that determination may be unknown such as the end user of the items and the equipment's technical specifications or configuration. Moreover, individual sales may be legal in that the equipment embodies less advanced technology, but these transactions may strengthen the general industrial base. [REDACTED]

25X1

Numerically controlled machine tools, advanced machining centers and robots constitute the largest grouping of technologies transferred from Italy to the Soviet Bloc; the Soviet automobile industry has been the chief beneficiary. Evidently, Soviet recognition of Italian excellence in this field has motivated them to place 60 technicians in the design center of an acknowledged industry leader, Comau, a subsidiary of [REDACTED]

25X1

Fiat. Other firms have licensed their technology to the USSR, cooperate in personnel exchanges, and hold symposia. [REDACTED]

25X1
25X1

Italian transfers of advanced electronics technology and equipment are more limited but are, nevertheless, important sources of technology. Semiconductor raw materials, production equipment and integrated circuits have all been sold by Italian firms to the Soviet Union and Eastern Europe. Italian-made computers and software are also of primary interest. [REDACTED]

25X1

The Soviet Union has sought a variety of other technologies in Italy such as telecommunications, computer data base services, and advanced materials for several years. [REDACTED]

25X1

In Italy as elsewhere, acquisitions of technology are accomplished through a variety of mechanisms. Most of the transfers occur through trade -- both legal and illegal -- such as commercial exchanges, direct sales to the Communist countries, and the use of wholly-owned Bloc firms, mixed firms or joint ventures. Another primary mechanism is the use of Soviet Bloc individuals as technology collectors -- Intelligence officers, long-term TDYers and other commercial representatives. [REDACTED]

25X1

25X1

25X1

25X1

[REDACTED]

Diversion likely has been the most successful of the illegal mechanisms used: firms or individuals that sell restricted material without the benefit of export licensing or approval. Large amounts of semiconductor production equipment and advanced machine tools have illegally been shipped to the Soviet Bloc by Italian companies. The Soviet Union may also pressure firms with a substantial amount of legal business to acquire controlled items on their behalf. [REDACTED]

25X1

Although Italy, like the other COCOM members, has the governmental apparatus to control the illegal flow of technology out of the country, enforcement is weak. There is a seeming unwillingness to enforce what are viewed as minor infractions against the system. The Italian Customs services give a low priority to the export of dual-use equipment and technology and resources have not been allocated to export enforcement. [REDACTED]

25X1

Rome seems to agree that export controls and COCOM are important, yet Italy brings relatively fewer cases for COCOM licensing approval than other member countries. This suggests three possibilities: Italy's trade with proscribed nations is primarily in non-COCOM-controlled items, firms are selling goods without applying for export licenses from Rome, or Italian officials are approving sales without the benefit of COCOM review. [REDACTED]

25X1

The existence of high-technology industries, a sizable Soviet presence, and a seeming lack of governmental control over exports, unite to create a situation in which technology losses could easily occur. Additional factors present a stronger case for potential technology transfers: an historical commercial relationship with the Soviet Bloc, the need to reduce a trade deficit with the USSR, and worldwide competition and pressure to find new markets for advanced technology products. There are examples of strategic goods being acquired from Italy and evidence that suggests that Rome may not necessarily be concerned with controlling this flow. Resources have not been allocated to the enforcement agencies that control illegal exports and the prevailing laissez-faire attitude towards dual-use items would not suggest any future changes. As Italy upgrades its technology base, it is likely that there will be more losses to Soviet Union and Eastern Europe. [REDACTED]

25X1

25X1